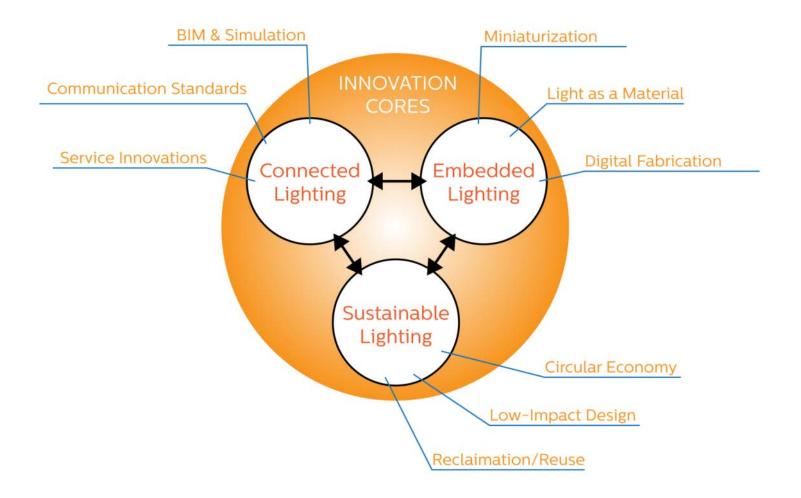
# Embedded Lighting

architectural materials

The future of integrating lighting into



# A revolution has occurred in architectural construction

Harbin Opera House MAD Architects









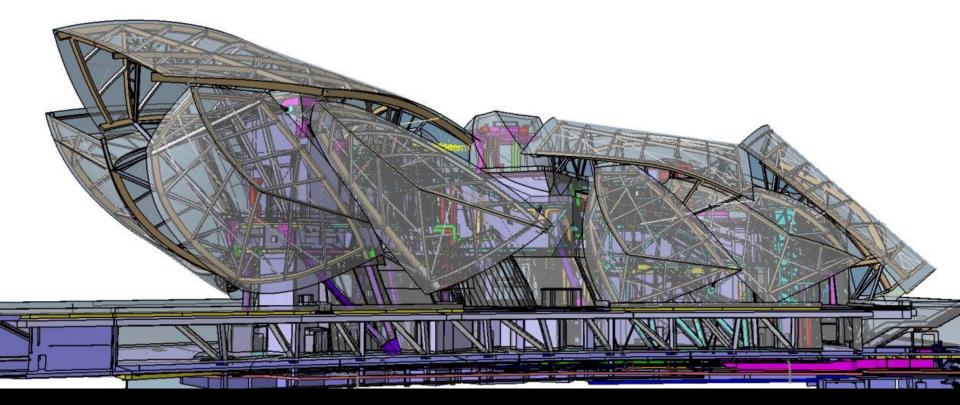








Frank Gehry Louis Vuitton Foundation



Frank Gehry Louis Vuitton Foundation



Why are our lighting systems constrained to "fixtures"?

Architects want to treat light like a material

UN Studio Taiwan Airport

FILLER MARK

e Teter

#### Luminous solutions by Philips <u>Lighting</u> Luminous Textiles Luminous Carpets Lumin

One Space







Luminous Patterns





Philips Luminous Carpets









Philips Luminous Textiles





#### Fabric + Media Content





## Philips OneSpace







Philips Luminous Patterns





### **Richard Kelly**

Pioneering mid-century lighting designer



# **3 types of lighting:**

- Focal Glow
- Ambient Luminescence
- Play of Brilliants





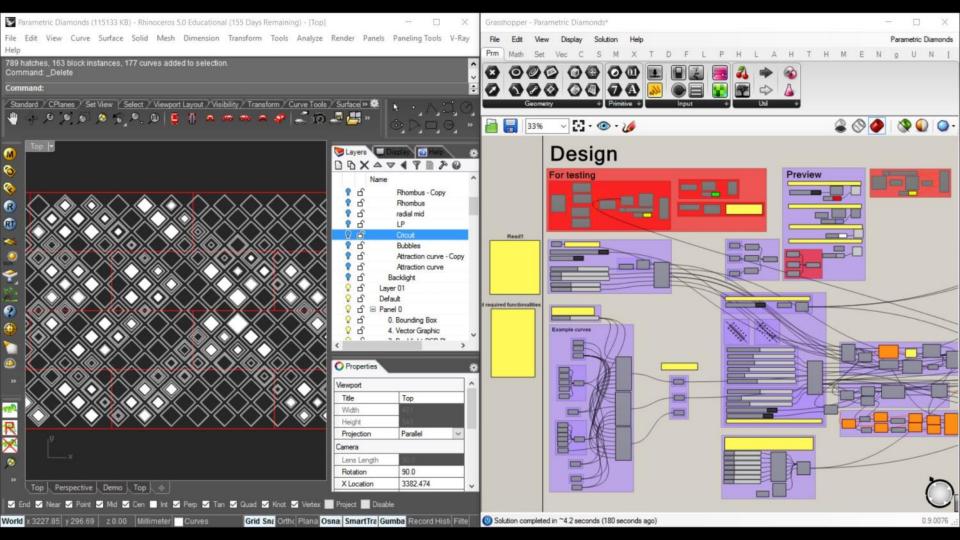


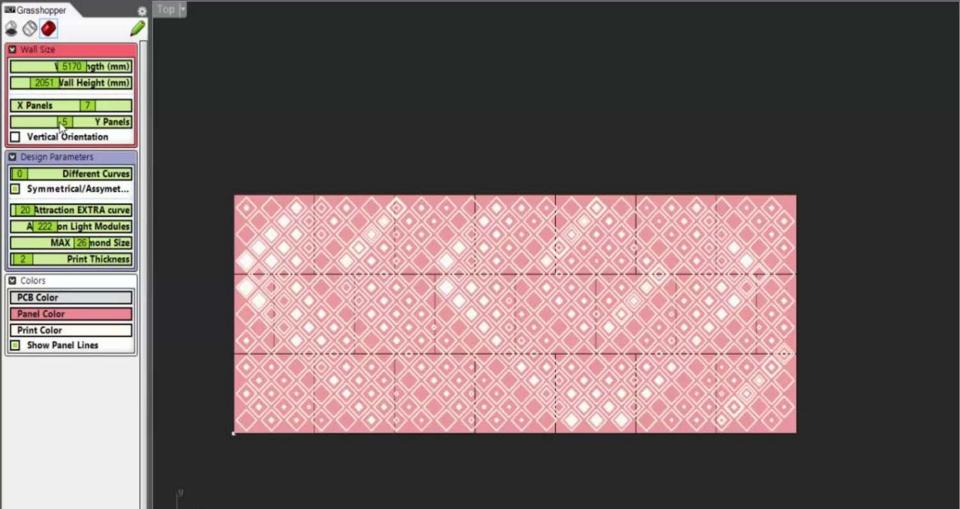




## Parametric Design





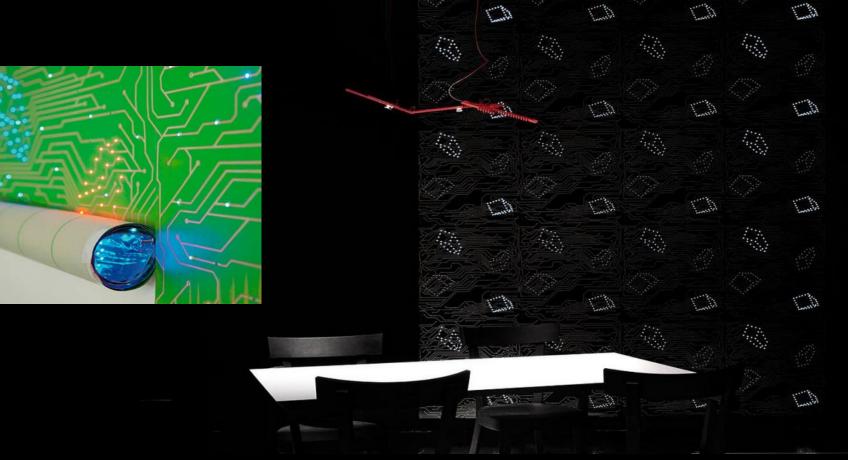


# Embedded Lighting: What does the future hold?

Light as a material

"...the integration of energy harvesting, sensing, control, and illumination into a single, flexible, highvolume, eco-friendly material..."

Sheila Kennedy, Harvard Graduate School of Design (1999)



LED wallpaper

LED Wallpaper (2011) Ingo Maurer



#### Planar sheets of light

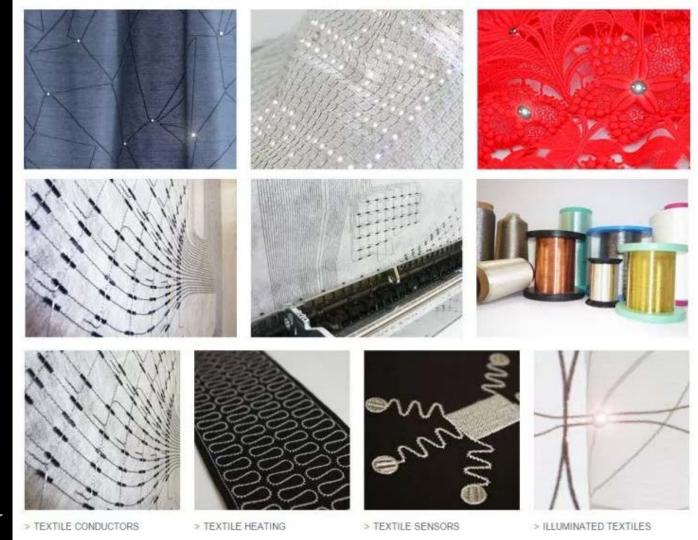
Cooledge Lighting (2014) StoneGate Design

Light as a textile



E-Static Shadows (2009) Zane Berzina, et al

#### Light as a textile



Forster Rohner

Light as sheet



### **BIM/Parametric/Digital Fab**



#### Light as a Material

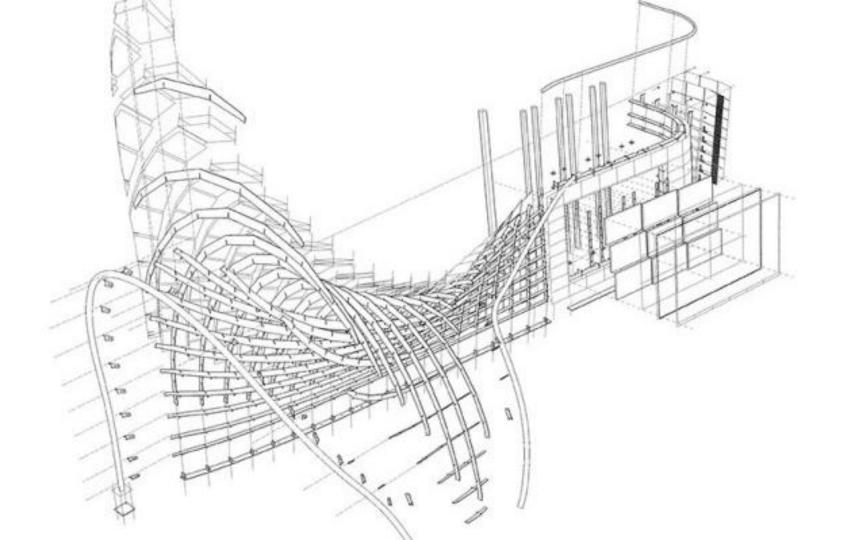
Healthy Light



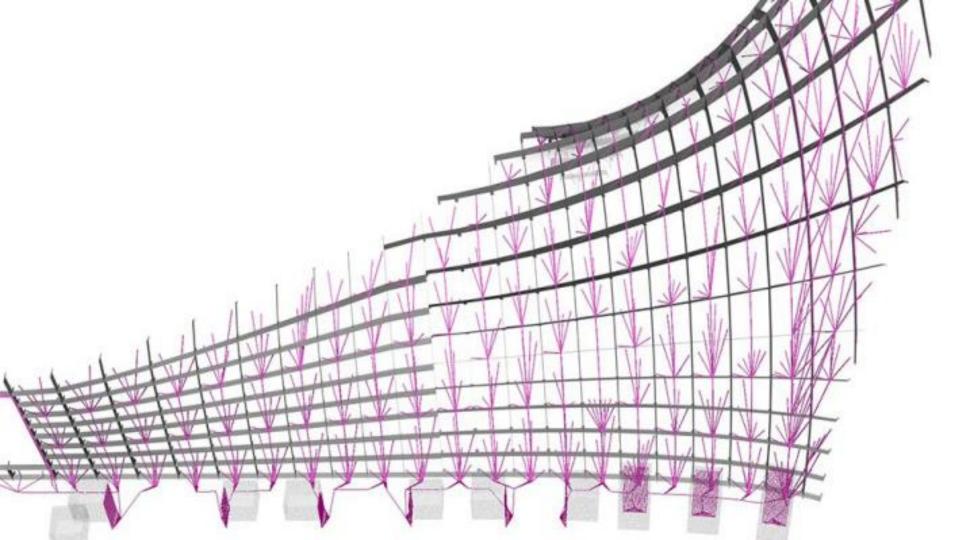


Aurora – DirectTV Headquarters (2013) Electroland



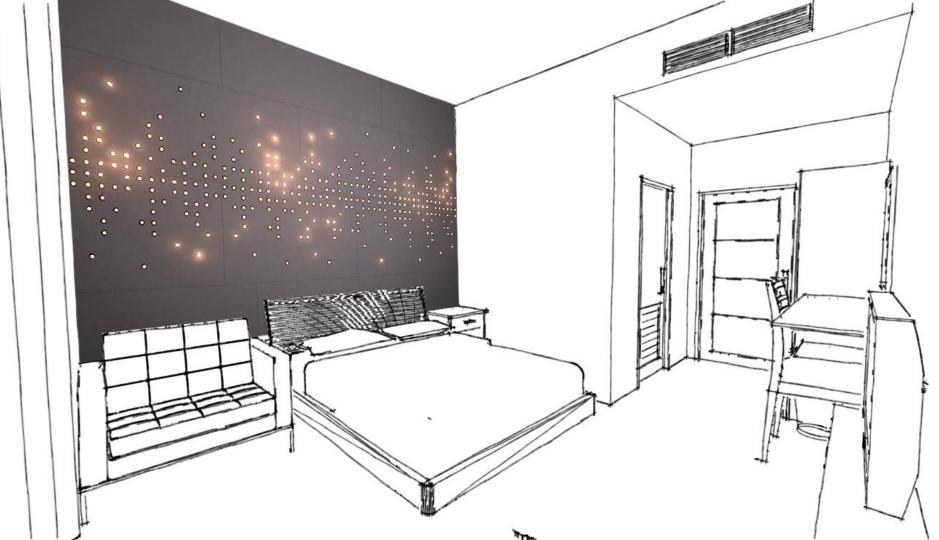




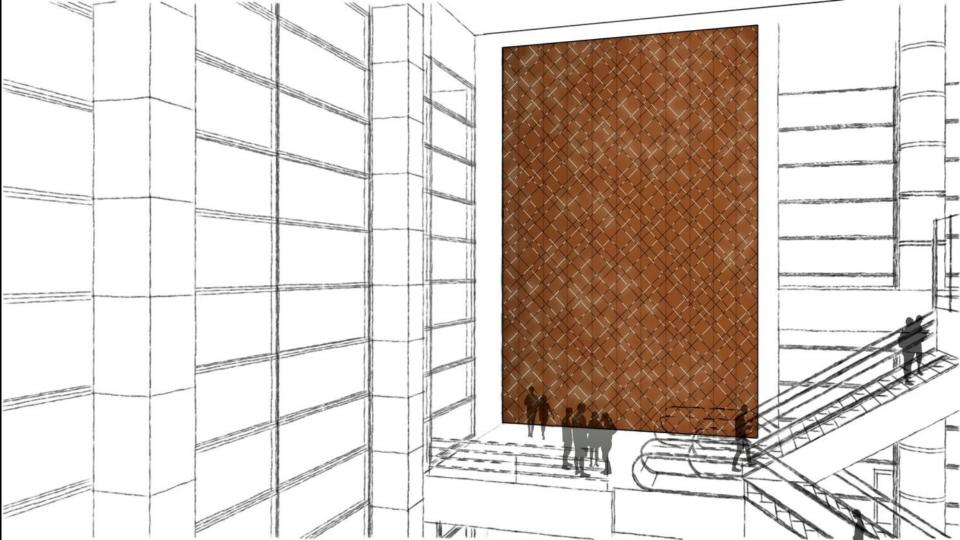




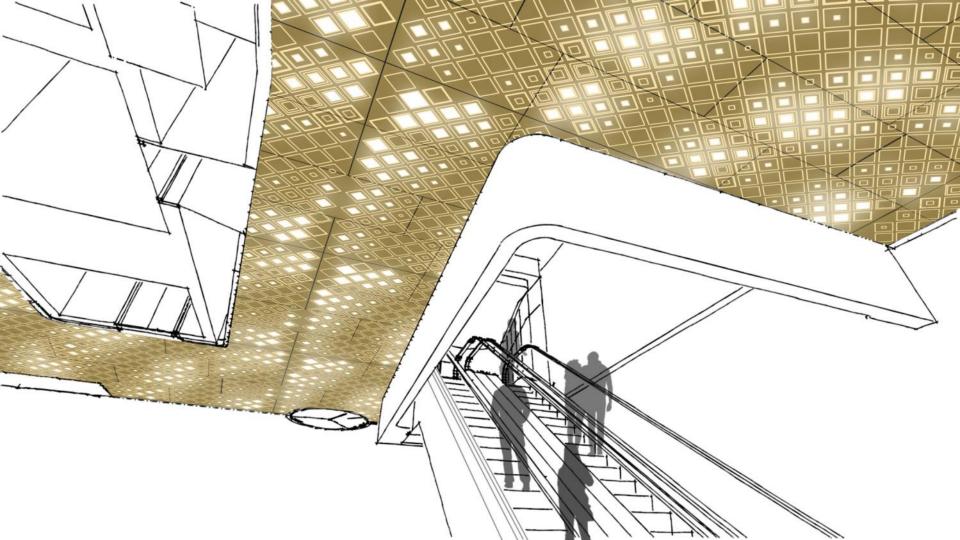


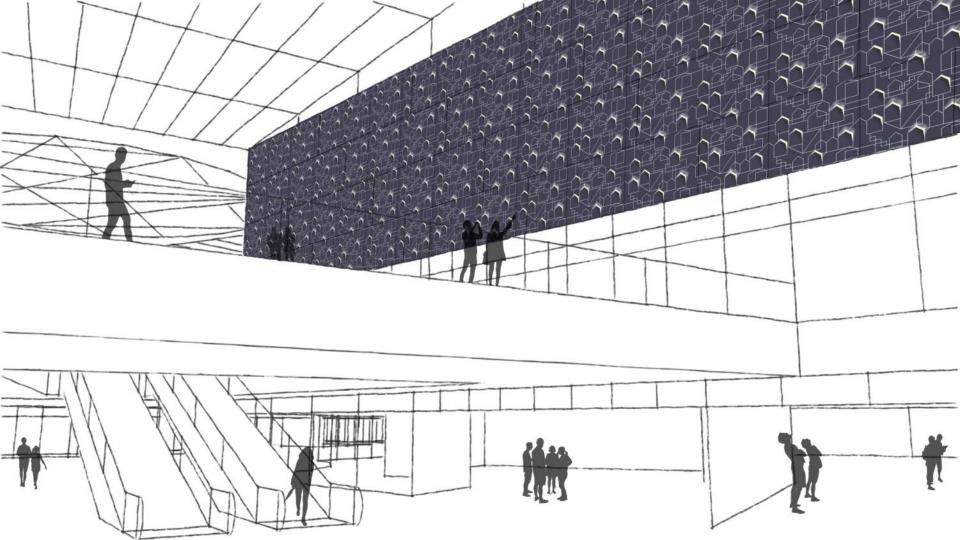














## Thank you!

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